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The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HERRBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF INCORPORATION OF "PTS CORPORATION", PILED IN THIS OFFICE ON THE TWENTIETH DAY OF MARCH, A.D. 2003, AT 5 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Daniet Smita Hindson Harrier Smith Windson, Secretary of State

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AUTHENTICATION: 2325435

From-MORRISON & FOERSTER LLP

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T-243 P.003/004 F-688

STATE OF DELAWARE SECRETARY OF STATE DIVISION OF COMPORATIONS FILED 05:00 PM 03/20/2003 030189318 - 3699950

CERTIFICATE OF INCORPORATION

OF

PTS CORPORATION

- 1. The name of the corporation is PTS Corporation (the "Corporation").
- 2. The address of the corporation's registered office in the State of Delaware is 2711 Centerville Road, Suite 400, in the City of Wilmington, 19808, County of New Castle. The name of its registered agent at such address is Corporation Service Company.
- 3. The nature of the business of the Corporation and the objects or purposes to be transacted, promoted or carried on by it are as follows: To engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of the State of Delaware.
- 4. The total number of shares of all classes of stock that the Corporation is anthorized to issue is One Thousand (1,000) shares of Common Stock with a par value of \$0.001 per share.
- The Board of Directors is expressly authorized to make, after or repeal the Bylaws of the Corporation.
- Elections of directors need not be by written ballot unless the Bylaws of the Corporation shall so provide.
- 7. Whenever a compromise or arrangement is proposed between this Corporation and its creditors or any class of them and/or between this Corporation and its stockholders or any class of them, any court of equitable jurisdiction within the State of Delaware may, on the application in a summary way of this Corporation or of any creditor or stockholder thereof. or on the application of any receiver or receivers appointed for this Corporation under the provisions of Section 291 of Title 8 of the Delaware Code or on the application of trustees in dissolution or of any receiver or receivers appointed for this Corporation under the provisions of Section 279 of Title 8 of the Delawers Code order a meeting of the creditors or class of creditors, and/or of the stockholders or class of stockholders of this Corporation, as the case may be, to be summoned in such manner as the said court directs. If a majority is number representing three-fourths in value of the creditors or class of creditors, and/or of the stockholders or class of stockholders of this Corporation, as the case may be, agree to any compromise or arrangement and to any reorganization of this Corporation as a consequence of such compromise or arrangement, the said compromise or arrangement and the said reorganization shall, if sanctioned by the court to which the said application has been made, be binding on all the creditors or class of creditors, and/or on all the stockholders or class of stockholders, of this Corporation, as the case may be, and also on this Corporation.
- 8. The Corporation reserves the right to amend, alter, change or repeal any provision contained in this Certificate of Incorporation, in the manner now or hereafter prescribed by statute, and all rights conferred upon stockholders herein are granted subject to this reservation.

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- 9. To the fullest extent permitted by Delaware statutory or decisional law, as amended or interpreted, no director of this Corporation shall be personally liable to the Corporation or its stockholders for monetary damages in excess of One Dollar (\$1.00) per director per occurrence for breach of fiduciary duty as a director. This Article 9 does not affect the availability of equivable remedies for breach of fiduciary duties.
- 10. The name and mailing address of the sole incorporator is as follows:

Name

Mailing Address

Brian Lewandowski

c/o Morrison & Poerster LLP 5200 Republic Plaza 370 17th Street Denver, Colorado 80202-5638

I, the undersigned, being the sole incorporator hereinbefore named, for the purpose of forming a corporation pursuant to the General Corporation Law of the State of Delaware, do make this cartificate, hereby declaring and certifying that this is my act and deed and the facts herein stated are true, and, accordingly, have becounts set my hands this 19th day of March, 2003.

/s/ Brian D. Lawandowski
Brian Lewandowski, Sole Incorporator

Ethibit A

ASSIGNMENT AND TRANSFER OF PATENTS

WHEREAS, BOPS, Inc., a Delaware corporation, with offices at 1200 Charleston Road, Mountain View, California 94043 ("Assignor") owns certain patent applications and/or registrations, as listed in Exhibit A attached hereto and incorporated herein by this reference ("Patents"); and

WHEREAS, Altera Corporation, a Delaware corporation, with offices at 101 Innovation Drive, San Jose, California 95134 ("Assignee"), desires to acquire all of the right, title and interest of Assignor in, to and under the Patents;

WHEREAS, Assignor and Assignee have entered into a certain Asset Purchase Agreement, dated as of December 20, 2002 ("Assignment Agreement"), assigning, among other things, all right, title and interest in and to the Patents and in and to the registrations for same from Assignor to Assignee;

NOW, THEREFORE, for good and valuable consideration described in the Assignment Agreement, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby irrevocably sell, assign, transfer and convey unto Assignee all of its right, title and interest in and to the Patents, including all divisions, continuations, continuations-in-part, reexaminations, substitutions, reissues, extensions and renewals of the applications and registrations for the Patents (and the right to apply for any of the foregoing); all rights to causes of action and remedies related thereto (including, without limitation, the right to sue for past, present or future infringement, misappropriation or violation of rights related to the foregoing); and any and all other rights and interests arising out of, in connection with or in relation to the Patents throughout the universe, including without limitation all foreign counterparts and foreign equivalents of any of the foregoing.

Assignor authorizes and requests the patent officials in the United States and in any and all foreign jurisdictions to issue any and all letters patent and foreign counterparts or equivalents thereof to Altera Corporation, as assignee of the entire interest of Assignor therein, and covenants that Assignor has full right to convey the entire interest herein assigned and that Assignor has not executed and will not execute any agreements in conflict herewith.

Assignor further agrees, for itself, its successors and assigns, to execute such further documents and to perform such further lawful acts as may reasonably be required to effectuate this assignment.

IN WITNESS WHEREOF, Assignor has caused this assignment to be duly executed by an authorized officer on this 20th day of December, 2002. BOPS, IN Carl Schlachte Chairman and Chief Executive Officer STATE OF CALIFORNIA COUNTY OF Sammatus On December 20, 2002, before me, the undersigned notary public in and for said County and State, personally appeared <u>Cash Schlachte</u> dr. personally known to me [or] proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) _______ i S _____ subscribed to the within instrument and acknowledged to me that ______ executed the same in ______ hi S _____ authorized capacity(ies) and that, by ____ signature(s) on the instrument, the person(s) or the entity(ies) upon behalf of which the person(e) acted executed the instrument. Witness my hand and official seal. My commission expires on COMM. # 1312933 TARY PUBLIC . CALIFORNIA

EXHIBIT 4.2(c)(ii)
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EXHIBIT A

PATENTS

Client No.	Title	Country.	Inventors	Application No.
	Filing Date	Patent No.		
800.0001	Manifold Array Processor 6/30/1997	U.S. 6,023,753	Pechanek, G	08/885,310
800.0001-PCT	Manifold Array Processor 6/24/1998	PCT	Kurak, Jr.,	PCT/US98/13111
800.0001-EP	Manifold Array Processor 6/24/1998	EP 1002279		98932831.5-2201
800.0001-CA	Manifold Array Processor 6/24/1998	CA		2,295,109
800.0001-CN	Manifold Array Processor 6/24/1998	CN		98806757.9
800.0001-IL	Manifold Array Processor 6/24/1998	IL		133,691
800.0001-ЛР	Manifold Array Processor 6/24/1998	JP		11-505670
800.0001-KR	Manifold Array Processor 6/24/1998	KR		10-1999-7012547
800.0001-MX	Manifold Array Processor 6/24/1998	MX		09911982
800.0002	Method and Apparatus for 10/10/1997	U.S. 6,167,502	Pechanek, G	08/949,122
	Manifold Array Processing		Pitsianis, N	
800.0002-PCT	Method and Apparatus for 10/9/1998	PCT	Вату, Е	PCT/US98/21478
800.0002-EP	Manifold Array Processing Method and Apparatus for 10/9/1998	EP . 1034484		98954956.3
800.0002-CA	Manifold Array Processing Method and Apparatus for 10/9/1998	CA		2,305,221
800.0002-CN	Manifold Array Processing Method and Apparatus for 10/9/1998	CN		98809446.0
800.0002-JL.	Manifold Array Processing Method and Apparatus for 10/9/1998	IL		135,535
800.0002-JP	Manifold Array Processing Method and Apparatus for 10/9/1998	JP .		2000-516291
800.0002-KR	Manifold Array Processing Method and Apparatus for 10/9/1998	KR		10-2000-7003864
800.0002-MX	Manifold Array Processing Method and Apparatus for 10/9/1998	MX		3003
	Manifold Array Processing			
800.0004	Methods and Apparatus for 11/6/1998	U.S. 6,151,668	Pechanek, G	09/187,539
	Efficient Synchronous MIMD Operations with iVLIW PE-to-PE	5,121,000	Drabenstott, Revilla, J	

800.0004-PCT	Methods and Apparatus for 11/6/1998 Efficient Synchronous MIMD	PCT		PCT/US98/23650
800.0004-EP	Operations with iVLIW PE-to-PE Methods and Apparatus for 11/6/1998 Efficient Synchronous MIMD	EP 1029266		98957630.1
800.0004-CA	Operations with iVLIW PE-to-PE Methods and Apparatus for 11/6/1998 Efficient Synchronous MIMD	CA		2,310,584
800.0004-CN	Operations with iVLIW PE-to-PE Methods and Apparatus for 11/6/1998	CN		98810767.8
800.0004-IL	Efficient Synchronous MIMD Operations with iVLIW PE-to-PE Methods and Apparatus for 11/6/1998	IL ·		135,953
800.0004-Љ	Efficient Synchronous MIMD Operations with iVLIW PE-to-PE Methods and Apparatus for 11/6/1998	JP '		2000-51983
800.0004-KR	Efficient Synchronous MIMD Operations with iVLIW PE-to-PE Methods and Apparatus for 11/6/1998	KR		10-2000-7004975
800.0004-MX	Efficient Synchronous MIMD Operations with iVLIW PE-to-PE Methods and Apparatus for 11/6/1998 Efficient Synchronous MIMD Operations with iVLIW PE-to-PE	мх		3803
800.0004.PROV	Methods and Apparatus for 11/7/1997	U.S.	Pechanek, G	60/064,619
	Efficient Synchronous MIMD VLIW Communication		Drabenstott, Revilla, J	
800.0011	Methods and Apparatus for 10/9/1998	U.S. 6,343,356	Pechanek, G	09/169,255
	Dynamic Instruction Controlled Reconfiguration Reg		Barry, E	
800.0011.PROV	Methods and Apparatus for 7/9/1998	U.S.	Pechanek, G	60/092,148
	Dynamic Instruction Controlled Reconfiguration Reg		Валту, Е	
800.0012	Methods and Apparatus for 10/9/1998	U.S. 6,167,501	Вату, Е	09/169,256
•	ManArray PE-PE Switch Control	2,101,001	Pechanek, G Drabenstott,	•
800.0012-PCT	Methods and Apparatus for 10/8/1999	PCT		PCT/US99/23493
800.0012-EP	ManArray PE-PE Switch Control Methods and Apparatus for 10/8/1999 ManArray PE-PE Switch Control	EP 1137999		99953107.2
800.0012-ЛР	Methods and Apparatus for 10/8/1999	Ъ		2000-576380
	ManArray PE-PE Switch Control			

800.0012.PROV	Methods and Apparatus for 6/5/1998	U.S.	Вату, Е	60/088,148
	ManArray PE-PE Switch Control		Pechanek, G Drabenstott,	
800.0013	Methods and Apparatus for 12/18/1998 Scalable Instruction Set	U.S. 6,101,592	Pechanek, G	09/215,081
800.0013-PCT	Architecture with Dynamic Comp Methods and Apparatus for 12/14/1999	PCT	Barry, E Revilla, J	PCT/US99/29516
800.0013-EP	Scalable Instruction Set Architecture with Dynamic Comp Methods and Apparatus for 12/14/1999	EP		99968117.4
800.0013-IL	Scalable Instruction Set Architecture with Dynamic Comp Methods and Apparatus for 12/14/1999	fL		143,431
800.0013-ЈР	Scalable Instruction Set Architecture with Dynamic Comp Methods and Apparatus for 12/14/1999	Л Р		2000-590073
	Scalable Instruction Set Architecture with Dynamic Comp			
800.0013.PROV	Methods and Apparatus for 12/18/1997	U.S.	Pechanek, G	60/068,021
	Scalable Instruction Set Architecture		Barry, E Drabenstott,	
800.0016	Methods and Apparatus for 12/4/1998	U.S. 6,173,389	Pechanek, G	09/205,588
	Dynamic Very Long Instruction Word Sub-Instruction Selection		Revilla, J Barry, E	
800.0016-PCT	System for Dynamic VLIW 12/2/1999 Sub-Instruction Selection for	PCT		PCT/US99/28506
800.0016-EP	Execution Time Parallelism in System for Dynamic VLIW 12/2/1999 Sub-Instruction Selection for	EP 1247196		99965084.9
800.0016-JP	Execution Time Parallelism in System for Dynamic VLIW 12/2/1999 Sub-Instruction Selection for	ЛР		2000-596762
800.0016-IL	Execution Time Paratlelism in System for Dynamic VLIW 12/2/1999 Sub-Instruction Selection for	IL		143,430
	Execution Time Parallelism in			
800.0016.PROV	Method and Apparatus for 12/4/1997	U.S.	Revilla, J	60/067,511
	Dynamically Modifying Instructions in a Very Long In		Ватту, Е Pechanek, G	
800.0017	Methods and Apparatus to 1/12/1999	U.S. 6,216,223	Revilla, J	09/228,374
	Dynamically Reconfigure the Instruction Pipeline of an Ind		Barry, E Marchand, P	

80O.0017-PCT	Methods and Apparatus to 1/10/2000	PCT		PCT/US00/00569
80O.0017-EP	Dynamically Reconfigure the Instruction Pipeline of Indire Methods and Apparatus to 1/10/2000 Dynamically Reconfigure the	ЕР		00903213.7-2201
800.0017-IL	Instruction Pipeline of an Ind Methods and Apparatus to 1/10/2000	IL		144,162
800-0017-ЈР	Dynamically Reconfigure the Instruction Pipeline of an Ind Methods and Apparatus to 1/10/2000 Dynamically Reconfigure the	ĄĮ		2000-594009
	Instruction Pipeline of an Ind	•	•	
800.0017.PROV	Methods and Apparatus to 1/12/1998 Dynamically Expand the	U.S.	Revilla, J	60/071,248
	Instruction Pipeline of a Very			
800.0021	Methods and Apparatus to 1/28/1999 Support Conditional Execution	U.S. 6,366,999	Drabenstott, Pechanek, G	09/238,446
900 0001 DCT	in a VLIW-Based Array Processo		Barry, E	
800.0021-PCT	Methods and Apparatus to 1/24/2000 Support Conditional Execution	PCT		PCT/US00/01803
800.0021-EP	in a VLIW-Based Array Processo Methods and Apparatus to	EP		00011425
	1/24/2000 Support Conditional Execution	1196855		00911637.7
800.0021-IL	in a VLIW-Based Array Processo Methods and Apparatus to 1/24/2000 Support Conditional Execution	IL	· .	144,562
800.0021-JP	in a VLIW-Based Array Processo Methods and Apparatus to 1/24/2000 Support Conditional Execution	ЛÞ		2000-596471
	in a VLIW-Based Array Processo			•
800.0021.PROV	Methods and Apparatus to 1/28/1998	U.S.	Drabenstott,	60/072,915
	Support Conditional Execution in a VLIW-Based Array Processo		Pechanek, G Revilla, J	
800.0022	Merged Array Controller with 10/9/1998	U.S. 6,219,776	Pechanek, G	09/169,072
800.0022-PCT	Processing Element Methods and Apparatus for 10/8/1999	PCT	Revilla, J	PCT/US99/23495
	Dynamically Merging an Array Controller with an Array Proce			
800.0022-EP	Methods and Apparatus for 10/8/1999	EP 1127316		99953109.8
	Dynamically Merging an Array Controller with an Array Proce			
800.0022-JP	Methods and Apparatus for 10/8/1999 Dynamically Merging an Array	JP ·		2000-576374
	Dynamically wiriging an Array			

	Controller with an Array Proce			
800.0022.PROV	Methods and Apparatus for 3/10/1998	U.S.	Pechanek, G	60/077,457
	Dynamically Merging an Array Controller with an Array Proce		Revilla, J	
800.0023	Register File Indexing 3/12/1999	U.S. 6,446,190	Barry, E	09/267,570
	Methods and Apparatus for Providing Indirect Control of	•	Pechanek, G	
800.0023-PCT	Register File Indexing 3/9/2000	PCT	Marchand, P	PCT/US00/06334
	Methods and Apparatus for Providing Indirect Control of		•	
800.0023-EP	Register File Indexing 3/9/2000	ЕР		00913887.6
	Methods and Apparatus for Providing Indirect Control of			
800.0023-CA	Register File Indexing 3/9/2000 Methods and Apparatus for	CA		
	Providing Indirect Control of			
800.0023-IL	Register File Indexing 3/9/2000 Methods and Apparatus for	IL		144,970
	Providing Indirect Control of			
800.0023-JP	Register File Indexing 3/9/2000	ЛP		2000-604303
	Methods and Apparatus for Providing Indirect Control of			
8 0.0023.PROV	Register File Indexing 3/12/1998	U.S.	Ваггу, Е	60/077,766
	Methods and Apparatus for Providing Indirect Control of			
800.0024	Accessing Tables in Memory 6/16/2000	U.S. 6,397,324	Вагту, Е	09/596,103
	Banks Using Load and Store Address Generators Sharing Sto		Kurak, Jr., Pechanek, G	
800.0024-PCT	Methods and Apparatus for 5/10/2001	PCT		PCT/US01/15232
	Data Dependent Address Operations and Efficient Varia			
800.0024-EP	Methods and Apparatus for 5/10/2001	EP		01935327.5
	Data Dependent Address Operations and Efficient Varia			•
800.0024.PROV	Methods and Apparatus for 6/18/1999	U.S.	Barry, E	60/139,946
	Data Dependent Address Operations and Efficient Varia		Kurak, Jr., Pechanek, G	
800.0025	Methods and Apparatus for 6/21/2000	U.S.	Barry, E	09/598,566
	Generalized Event Detection and Action Specification in a	•	Marchand, P	
800.0025-PCT	Methods and Apparatus for 6/21/2000	PCT .	Pechanek, G	PCT/US00/40273
	Generalized Event Detection			



800.0025-EP	and Action Specification in a Methods and Apparatus for 6/21/2000 Generalized Event Detection and Action Specification in a	ЕР		00955904.8
800.0025.PROV	Methods and Apparatus for 6/21/1999 Generalized Event Detection and Action Specification in a	U.S.	Barry, E Marchand, P Pechanek, G	60/140,245
800.0026	Methods and Apparatus for 11/2/1999 Improved Motion Estimation	U.S.	Kurak, Jr., Moller, C	09/432,705
800.0026-PCT	for Video Encoding Methods and Apparatus for 11/2/1999 Improved Motion Estimation for Video Encoding	РСТ		PCT/US99/25707
800.0026-EP	Improved Motion Estimation 11/2/1999	EP		99971615.2
800.0026-ЛР	Methods and Apparatus for 11/2/1999	1157559 Љ		2000-580388
800.0026-IL	Improved Motion Estimation for Video Encoding Methods and Apparatus for 11/2/1999 Improved Motion Estimation for Video Encoding	IL .		142,856
800.0026.PROV	Methods and Apparatus for 11/3/1998 Improved Motion Estimation for Video Encoding	U.S.		60/106,867
800.0027	Methods and Apparatus for 7/9/1999 Instruction Addressing in	U.S. 6,356,994	Barry, E	09/350,191
800.0027-PCT	Indirect VLIW Processors Methods and Apparatus for 7/7/2000 Instruction Addressing in	PCT	Pechanek, G	PCT/US00/40143
800.0027-EP	Indirect VLIW Processors Methods and Apparatus for 6/7/2000 Instruction Addressing in Indirect VLIW Processors	ЕР		00943442.4
800.0027.PROV	Methods and Apparatus for 7/9/1998 Instruction Addressing in Indirect VLIW Processors	U.S.	Вапу, Е	60/092,130
800.0028	Methods and Apparatus for 12/22/2000 Loading a Very Long Instruction Word Memory	U.S.	Barry, E Pechanek, G	09/747,056
800.0028.PROV	Methods and Apparatus for 12/23/1999 Loading a Very Long Instruction Word Memory	U.S.	Barry, E Pechanek, G	60/171,911

				•
800.0029	Efficient Complex 6/22/1999	U.S.	Pitsianis, N	09/337,839
	Multiplication and Fast		Pechanek, G	
800.0029-PCT	Fourier Transform (FFT) Implem Efficient Complex 10/8/1999	PCT	Rodriguez, R	PCT/US99/23494
	Multiplication and Fast			
	Fourier Transform (FFT) Implem			
800.0029-EP	Efficient Complex	EP		99953108.0
	10/8/1999	1141819		
	Multiplication and Fast			
800.0029-JP	Fourier Transform (FFT) Implem Efficient Complex	JP		2000 576247
	10/8/1999	JI.		2000-576342
	Multiplication and Fast			
	Fourier Transform (FFT) Implem			
800.0029.CPA	Efficient Complex 6/22/1999	U.S.	Pitsianis, N	09/337,839
	Multiplication and Fast		Pechanek, G	
	Fourier Transform (FFT) Implem		Rodriguez, R	
800.0029.PROV	Efficient Complex 10/9/1998	U.S.	Pitsianis, N	60/103,712
	Multiplication and Fast			
	Fourier Transform (FFT) Implem			
800.0030	Methods and Apparatus for	U.S.	Barry, E	09/472,372
	12/23/1999	6,256,683	,,,	0314721372
	Providing Direct Memory			
800.0030-PCT	Access Control Methods and Apparatus for	D.C.Tr		D.C. T. T. C.
800.0030-1 C 1	12/19/2000	PCT		PCT/US00/34456
	Providing Direct Memory			
	Access Control			
800.0030-EP	Methods and Apparatus for	EP		00986567.6
	12/19/2000 Providing Direct Memory			
	Access Control			•
800.0030.PROV	Mathods and Annomity for	110		
000.0030.FKOV	Methods and Apparatus for 12/23/1998	U.S.	Вагту, Е	60/113,637
	Providing Direct Memory		Wolff, E	
	Access (DMA) Engine		,	
800.0031	Methods and Apparatus for	U.S.	Вапу, Е	00/471 217
	12/23/1999	6,260,082	Bally, E	09/471,217
	Providing Data Transfer	, ,	Wolff, E	
800.0031-PCT	Methods and Apparatus for 12/19/2000	PCT		PCT/US00/34454
	Providing Data Transfer			
800.0031-EP	Methods and Apparatus for	EP		00988150.9
	12/19/2000	L.		00700130.7
	Providing Data Transfer			
800.0031.PROV	Methods and Apparatus	U.S.	Dame E	40012 555
	12/23/1998	U.S.	Barry, E	60/113,555
	Providing Transfer Control		Wolff, E	
800.0032	Manifold Amou De	*** 6		
000.0032	Manifold Array Processor 6/1/1999	U.S.	Pechanek, G	09/323,609
	· · · · · · · · · · · · · · · · · · ·	6,338,129		

800.0034	Methods and Apparatus for 6/22/2000	U.S.	Kurak, Jr., Pechanek, G	09/599,980
	Parallel Processing Utilizing a Manifold Array (ManArray) Ar		Strube, D Barry, E	
800.0034.PROV	Methods and Apparatus for 6/22/1999	U.S.	Pechanek, G	60/140,425
	Parallel Processing Utilizing a Manifold Array (ManArray) Ar		Strube, D Barry, E	
800.0035	Methods and Apparatus for 6/21/2000	U.S.	Moller, C	09/598,567
	Improved Efficiency in Pipeline Simulation and Emulat		Busboom, C Schneider, D	
800.0035.PROV	Methods and Apparatus for 6/21/1999	U.S.	Moller, C	60/140,163
	Improved Efficiency in Pipeline Simulation and Emulat			
800.0036	Methods and Apparatus for 6/21/2000	U.S.	Pechanek, G	09/598,564
	Initiating and Resynchronizing Multi-Cycle SI		Strube, D Wolff, E	·
800.0036-PCT	Methods and Apparatus for 6/21/2000 Initiating and	PCT	Wolli, E	PCT/US00/40283
800.0036-EP	Resynchronizing Multi-Cycle SI			
800.0030-EF	Methods and Apparatus for 6/21/2000 Initiating and Resynchronizing Multi-Cycle SI	EP		00960114.7
800.0036.PROV	Methods and Apparatus for 6/21/1999	U.S.	Pechanek, G	60/140,162
	Initiating and Resynchronizing Multi-Cycle SI		Strube, D Morris, G	`
800.0037	Methods and Apparatus for 6/21/2000	U.S.	Barry, E	09/598,558
	Providing Manifold Array (ManArray) Program Context Swi		Pechanek, G Strube, D	
800.0037-PCT	Methods and Apparatus for 6/21/2000 Providing Manifold Array	PCT	Situot, D	PCT/US00/40272
222 222 77	(ManArray) Program Context Swi			
800.0037-EP	Methods and Apparatus for 6/21/2000 Providing Manifold Array	EP		00955903.0
	(ManArray) Program Context Swi			
800.0037.PROV	Methods and Apparatus for 6/21/1999	U.S.	Вату, Е	60/140,244
	Providing One-by-One Manifold Array (1x1 ManArray) Program C		Strube, D	
800.0038	Methods and Apparatus for 6/21/2000	U.S.	Ватту, Е	09/598,084
	Establishing Port Priority Functions in a VLIW Processor		Wolff, E Marchand, P	

800.0038-PCT	Methods and Apparatus for 6/21/2000	PCT		PCT/US00/40263
800.0038-EP	Establishing Port Priority Functions in a VLIW Processor Methods and Apparatus for 6/21/2000 Establishing Port Priority Functions in a VLIW Processor	ЕР		00951075.1
800.0038.PROV	Methods and Apparatus for 6/21/1999 Establishing Port Priority Functions in a VLIW Processor	U.S.	Вату, Е	60/140,325
800.0039	Methods and Apparatus for 10/21/1999 Abbreviated Instruction Sets	U.S. 6,408,382	Pechanek, G Kurak, Jr.,	09/422,015
800.0039-PCT	Adaptable to Configurable Proc Methods and Apparatus for 10/16/2000 Abbreviated Instruction and	PCT	Larsen, L	PCT/US00/28622
800.0039-EP	Configurable Processor Archite Methods and Apparatus for 10/16/2000 Abbreviated Instruction and Configurable Processor Archite	ЕР		00970952.8
800.0040	Methods and Apparatus for 11/9/2000 Efficient Cosine Transform	U.S.	Kurak, Jr., Pechanek, G	09/711,218
800.0040-PCT	Implementations Methods and Apparatus for 11/9/2000 Efficient Cosine Transform	PCT		PCT/US00/31120
800.0040-EP	Implementations Methods and Apparatus for 11/9/2000 Efficient Cosine Transform Implementations	£Р		00977189.0
800.0040.PROV	Methods and Apparatus for 11/12/1999 Efficient Cosine Transform Implementations	u.s.	Kurak, Jr., Pechanek, G	60/165,337
800.0042	Methods and Apparatus for 2/23/2001 Providing Bit-Reversal and	U.\$.	Barry, E Pitsianis, N	09/791,940
800.0042-PCT	Multicast Functions Utilizing Methods and Apparatus for 2/23/2001 Providing Bit-Reversal and	PCT	Coopman, K	PCT/US01/05714
800.0042-EP	Multicast Functions Utilizing Methods and Apparatus for 2/23/2001 Providing Bit-Reversal and Multicast Functions Utilizing	ЕР		01912939.4
800.0042.PROV	Methods and Apparatus for 2/24/2000 Providing Bit-Reversal and Multicast Functions Utilizing	U.\$.	Barry, E Pitsianis, N Coopman, K	. 60/184,668

800.0043	Methods and Apparatus for 2/23/2001	U.S.	Ватту, Е	09/791,256
	Scalable Array Processor		Marchand, P	•
800.0043-PCT	Interrupt Detection and Respon Methods and Apparatus for	PCT	Pechanek, G	PCT/US01/06058
	2/23/2001 Scaleble Acress Brancos		•	
	Scalable Array Processor Interrupt Detection and Respon			
800.0043-EP	Methods and Apparatus for 2/23/2001	EP		01916233.8
	Scalable Array Processor Interrupt Detection and Respon			
800.0043.PROV	Methods and Apparatus for 2/24/2000	U.S.	Barry, E	60/184,529
	Scalable Array Processor		Marchand, P	
•	Interrupt Detection and Respon	•	Pechanek, G	
800.0044	Methods and Apparatus for 2/23/2001	U.S.	Barry, E	09/792,819
	Dual-Use Coprocessing/Debug Interface			
800.0044-PCT	Methods and Apparatus for 2/23/2001	PCT		PCT/US01/06004
	Dual-Use Coprocessing/Debug			
800.0044-EP	Interface Methods and Apparatus for 2/23/2001	EP		.01914486.4
	Dual-Use Coprocessing/Debug	•		
	Interface			
800.0044.PROV	Methods and Apparatus for 2/24/2000	U.S.	Вату, Е	60/184,560
	Flexible Strength			
	Coprocessing Interface			
800.0045.PROV	Efficient Transformation and 3/29/2002	U.S.	Rodriguez, R	60/368,509
	Lighting Implementation for 3D Graphics		Jacobs, M Strube, D	
800.0046	Methods and Apparatus for	U.S.	Pechanek, G	10/004,010
	I 1/1/2001 Efficient Complex Long		n-d-i n	
	Multiplication and Covariance		Rodriguez, R Plonski, M	
800.0046-PCT	Methods and Apparatus for 11/1/2001	PCT		PCT/US01/45172
	Efficient Complex Long Multiplication and Covariance			
800.0046-EP	Methods and Apparatus for	EP		01992935.5
	Efficient Complex Long Multiplication and Covariance			
900 004/ 000/			•	
800.0046.PROV	Methods and Apparatus for 11/1/2000	U.S.	Pechanek, G	60/244,861
	Efficient Complex Long		Rodriguez, R	
	Multiplication and Covariance		Plonski, M	
800.0049	Methods and Apparatus for	U.S.	Pechanek, G	09/543,473
	4/5/2000 Scalable Instruction Set	6,321,322	Barry, E	
			Daij, L	



	Architecture with Dynamic Comp		Revilla, J	
800.0052	Methods and Apparatus for 5/11/2001	U.S.	Marchand, P	09/853,989
	Power Control in a Scalable Array of Processor Elements		Pechanek, G Wolff, E	
800.0052.PROV	Methods and Apparatus for 5/12/2000	U.S.	Marchand, P	60/203,629
	Power Control in a Scalable Array of Processor Elements		Pechanek, G · Wolff, E	
800.0053	Methods and Apparatus for 6/21/2001	U.S.	Pitsianis, N	09/886,855
	Indirect VLIW Memory	•	Strautin, B	
800.0053.PCT	Methods and Apparatus for 6/21/2001	PCT	Banerjee, S	PCT/US01/19851
800.0053-EP	Indirect VLIW Memory Methods and Apparatus for 6/21/2001	EP		01946628.3
	Indirect VLIW Memory			
800.0053.PROV	Methods and Apparatus for 6/21/2000	U.S.	Pitsianis, N	60/212,987
	Indirect VLIW Memory		Strautin, B Banerjee, S	
800.0057	Methods and Apparatus for 4/4/2002	U.S.	Raimi, R	10/116,221
	Generating Functional Test Programs by Traversing a Finit		Aloul, F	
800.0057.PROV	Methods and Apparatus for 4/4/2001	U.S.	Raimi, R	60/281,523
	Generating Functional Test Programs by Traversing a Finit		Aloul, F	
800.0066	Methods and Apparatus for 8/29/2000	U.S. 6,366,997	Ватту, Е	09/649,647
	ManArray PE-PE Switch Control	•	Pechanek, G Drabenstott,	
800.0067	Methods and Apparatus for 10/2/2000	U.S. 6,446,191	Pechanek, G	09/677,732
	Efficient Synchronous MIMD Operations with iVLIW PE-to-PE		Drabenstott, Revilla, J	
800.0069	Method and Apparatus for	U.S. 6,470,441	Pechanek, G	09/707,209
	Manifold Array Processing		Pitsianis, N Barry, E	•
800.0071	Methods and Apparatus for 11/21/2000	U.S. 6,467,036	Pechanek, G	09/717,992
	Dynamic Very Long Instruction Word Sub-Instruction Selection		Revilla, J Βαπ y , E	
800.0072	Methods and Apparatus for 2/28/2001	U.S. 6,430,677	Pechanek, G	09/796,037
	Dynamic Instruction Controlled Reconfigurable Regi		Ватту, Е	

800.0073	Methods and Apparatus for 10/19/2001	U.S.	Sadri, A	10/013,908
	Efficient Vocoder		Jaffer, N Silivra, A	
800.0073-PCT	Methods and Apparatus for 10/19/2001 Efficient Vocader	PCT	Silivia, A	PCT/US01/45451
800.0073-EP	Methods and Apparatus for 10/19/2001 Efficient Vocoder	ЕР		01989028.4
800.0073.PROV	Methods and Apparatus for 10/20/2000	U.S.	Sadri, A	60/241,940
	Efficient Vocoder		Jaffer, N Silivra, A	•
800.0077	Methods and Apparatus for 12/4/2001	U.S.	Chandna, A	10/004,578
	Providing Improved Physical Designs and Routing with Reduc		O'Brien, T Brown, D	
800.0077.PROV	Methods And Apparatus for 12/4/2000	U.S.	Chandna, A	60/251,072
	Providing Improved Physical Designs and Routing with Reduc		Brown, D	
800.0078	Merged Array Controller with 2/14/2001	U.S.	Pechanek, G	09/783,156
	Processing Element		Revilla, J	
800.0079	Methods and Apparatus for 5/14/2001 Providing Direct Memory Access Control	U.S. 6,453,367	Вату, Е	09/854,789
800.0080	Methods and Apparatus for 4/25/2002	U.S.	Wolff, E	10/131,941
	Pipelined Bus		Baker, D Cope, B	
800.0080.PROV	Methods and Apparatus for 4/27/2001	U.S.	Wolff, E	60/287,270
	Pipelined Bus		Baker, D Cope, B	
800.0081	Methods and Apparatus to 2/28/2001	U.S.	Revilla, J	09/796,040
	Dynamically Reconfigure the Instruction Pipeline of an Ind		Barry, E Marchand, P	
800.0088	Methods and Apparatus for 5/1/2002 Removing Compression Artifacts in Video Sequences	U.S.	Petrescu, D	10/136,651
800.0088.PROV	Methods and Apparatus for 5/4/2001 Removing Compression Artifacts in Video Sequences	U.S.	Petrescu, D	60/288,965

800.0089	Methods and Apparatus for 10/29/2002 Video Decoding	U.S.	Petrescu, D	10/282,925
			Stern, T Jacobs, M	•
800.0089.PROV	Methods and Apparatus for 10/30/2001	U.S.	Petrescu, D	60/340,620
	Video Decoding		Stern, T Jacobs, M	
800.0093	Methods and Apparatus for 4/10/2002	U.S.	Larin, S	10/119,660
	Automated Generation of Abbreviated Instruction Set an		Pechanek, G Conte, T	
800.0093.PROV	Methods and Apparatus for 4/13/2001	U.S.	Larin, S	60/283,582
	Automated Generation of Abbreviated Instruction Set an		Pechanek, G Conte, T	
800.0097	Methods and Apparatus for a 10/29/2002	U.S.	Wolff, E	10/282,919
	Bit Rake Instruction		Molnar, P Elezabi, A	
800.0097.PROV	Methods and Apparatus for a I 1/1/2001	U.S.	Wolff, E	60/335,159
	Bit Rake Instruction		Molnar, P Elezabi, A	•
800.0101	Methods and Apparatus for 6/29/2001	U.S. 6,457,073	Вапу, Е	09/896,687
	Providing Data Transfer	•	Wolff, E	
800.0104	Methods and Apparatus for 9/28/2001	U.S.	Pechanek, G	09/969,077
	Scalable Instruction Set Architecture with Dynamic Comp		Barry, E Revilla, J	
00.0114.PROV	Motion Estimation Method for 4/18/2002	U.S.	Petrescu, D	60/373,551
	MPEG-4 Simple Profile Video Coding for a MPEG-4 Codec on M		Searles, D	
800.0119	Manifold Array Processor 12/21/2001	U.S.	Pechanek, G	10/036,789
800.0121	Methods and Apparatus for 2/11/2002	U.S.	Ватту, Е	10/073,782
	Instruction Addressing in Indirect VLIW Processors		Pechanek, G	
800.0122	Methods and Apparatus to 4/1/2002	U.S.	Drabenstott,	10/114,652
	Support Conditional Execution in a VLIW-Based Array Processo		Pechanek, G Вагту, Е	
800.0123	Methods and Apparatus for 4/1/2002	U.S.	Barry, E	10/114,646
	ManArray PE-PE Switch Control		Pechanek, G Drabenstott,	

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800.0125	Method and Apparatus for 9/24/2002	U.S.	Pechanek, G	10/254,049
	Manifold Array Processing		Pitsianis, N Barry, E	
800.0126	Methods and Apparatus for 9/24/2002	U.S.	Pechanek, G	10/254,012
	Dynamic Very Long Instruction Word Sub-Instruction Selection		Revilla, J Barry, E	
800.0127	Methods and Apparatus for 9/24/2002	U.S.	Barry, E	10/254,105
	Providing Data Transfer		Wolff, E	

ExhibitB

ASSIGNMENT AND TRANSFER OF PATENTS

WHEREAS, Altera Corporation, a Delaware corporation, with offices at 101 Innovation Drive, San Jose, California, 95134 ("Assignor") owns certain patent applications and/or registrations, as listed in Exhibit A attached hereto and incorporated herein by this reference ("Patents"); and

WHEREAS, PTS Corporation, a Delaware corporation, with offices at 101 Innovation Drive, San Jose, California 95134 ("Assignee"), desires to acquire all of the right, title and interest of Assignor in, to and under the Patents;

WHEREAS, Assignor and Assignee have entered into an agreement providing for the assignment of, among other things, all right, title and interest in and to the Patents and in and to the registrations for same from Assignor to Assignee. The parties wish to enter into this assignment to effect the legal and beneficial transfer of all rights in and to the Patents and to fully vest the same in the Assignee;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby irrevocably sell, assign, transfer and convey unto Assignee all of its right, title and interest in and to the Patents, including all divisions, continuations, continuations-in-part, reexaminations, substitutions, reissues, extensions and renewals of the applications and registrations for the Patents (and the right to apply for any of the foregoing); all rights to causes of action and remedies related thereto (including, without limitation, the right to sue for past, present or future infringement, misappropriation or violation of rights related to the foregoing); and any and all other rights and interests arising out of, in connection with or in relation to the Patents throughout the universe, including without limitation all foreign counterparts and foreign equivalents of any of the foregoing.

Assignor authorizes and requests the patent officials in the United States and in any and all foreign jurisdictions to issue any and all letters patent and foreign counterparts or equivalents thereof to PTS Corporation, as assignee of the entire interest of Assignor therein, and covenants that Assignor has full right to convey the entire interest herein assigned and that Assignor has not executed and will not execute any agreements in conflict herewith.

Assignor further agrees, for itself, its successors and assigns, to execute such further documents and to perform such further lawful acts as may reasonably be required to effectuate this assignment.

IN WITNESS WHEREOF, Assignor and Assignee have caused this assignment to be duly executed by an authorized officer to be effective April 7, 2003.

ALTERA CORPORATION

Name: Derek E. Minihane

Title: Director, IP Law and Assistant Secretary

STATE OF LLUDANIA

COUNTY OF WHAT

Notary Public

